Subject: problem with TRIANGULATION option in CONTOUR Posted by Ardhuin on Sat, 23 Oct 2010 12:35:31 GMT

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Dear all,

I have been having problems with plotting output of a numerical model that uses unstructured grids using IDL: this model computes wave heights in the ocean. If I use the set of triangles from the model, I get really funny errors:

Out of range subscript encountered: <LONG Array[66453]>. although I only have 9626 points and about 16000 triangles.

```
The command I use is

CONTOUR,tablep,x,y,$

xstyle=5,ystyle=5,/FOLLOW,/CELL_FILL, TRIANGULATION=tri,

C_COLOR=colorind(0:c_numlev-2+addmini+addmaxi), $

LEVELS=lev,/

NOERASE,TITLE=title,CLIP=[rangex(0),rangey(0),rangex(1),rang ey(1)], $

XRANGE=rangex,YRANGE=rangey,MAX_VALUE=maxval, $

POSITION=[blx*winx/mwinx,bly*winy/mwiny,trx*winx/
mwinx,try*winy/mwiny]
```

Where tablep, x and y
If I first do TRIANGULATE,X,Y,tri then the contours comes out OK...
but they cut out through land boundaries and islands.

So I was thinking: my triangles must be wrong ... but if I do a TRIGRID with my triangles then I can plot nicely with TV ...

So my triangles are OK for TRIGRID but not for CONTOUR... How is that possible ??